MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Lawson Industries, Inc.
8501 NW 90 Street
Medley, FL 33166

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "3200" Outswing Aluminum Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **L3200-0801**, titled "Series: 3200 Outswing Impact Casement Window", sheets 01 through 07 of 07, dated 07/27/08, with revision "**C**" dated 08/25/14, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA No. 13-1217.22** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**

MIAMI-DADE COUNTY APPROVED

J. Gascon 11/17/14

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA No. 08-1020.08)
2. Drawing No. **L3200-0801**, Sheets 01 through 07 of 07, titled "Series: 3200 Outswing Impact Casement Window", dated 07/27/08, with revision "**C**" dated 08/25/14, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P. E.

B. TESTS

1. Test report on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94 along with marked-up drawings and installation diagram of a series 3200 outswing aluminum casement window, X configuration, w/5/16" ann. Lami. glass w/ PVB laminate by DuPont, Test Reports No.'s **HETI-08-2099A, HETI-08-2102A, HETI-08-2097A, HETI-08-2103A** and **HETI-08-2131A**, all dated 07/10/08, signed and sealed by Candido F. Font, P. E. ***(Submitted under NOA No. 08-1020.08)***
2. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
   2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   along with marked-up drawings and installation diagram of a series 3200 outswing aluminum casement window, X configuration, w/5/16" ann. Lami. glass w/ PVB laminate by DuPont, Test Reports No.'s **HETI-08-2099B, HETI-08-2100, HETI-08-2101,HETI-08-2102B,HETI-08-2097B,HETI-08-2103B,HETI-08-2104, HETI-08-2105, HETI-08-2106, HETI-08-2125** and **HETI-08-2131B**, all dated 07/10/08, signed and sealed by Candido F. Font, P. E.
   (Submitted under NOA No. 08-1020.08)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC, prepared by manufacturer, dated 10/01/08 and 01/30/09, signed and sealed by Thomas J. Sotos, P. E. ***(Submitted under previous NOA No. 12-0127.21)***
2. Glazing complies with **ASTM E1300-04/ 09**.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co.**, Inc. for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14-0908.20
Expiration Date: March 04, 2019
Approval Date: November 27, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS (CONTINUED)

3. Notice of Acceptance No. **14–0423.17** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 06/19/14, expiring on 05/21/16.

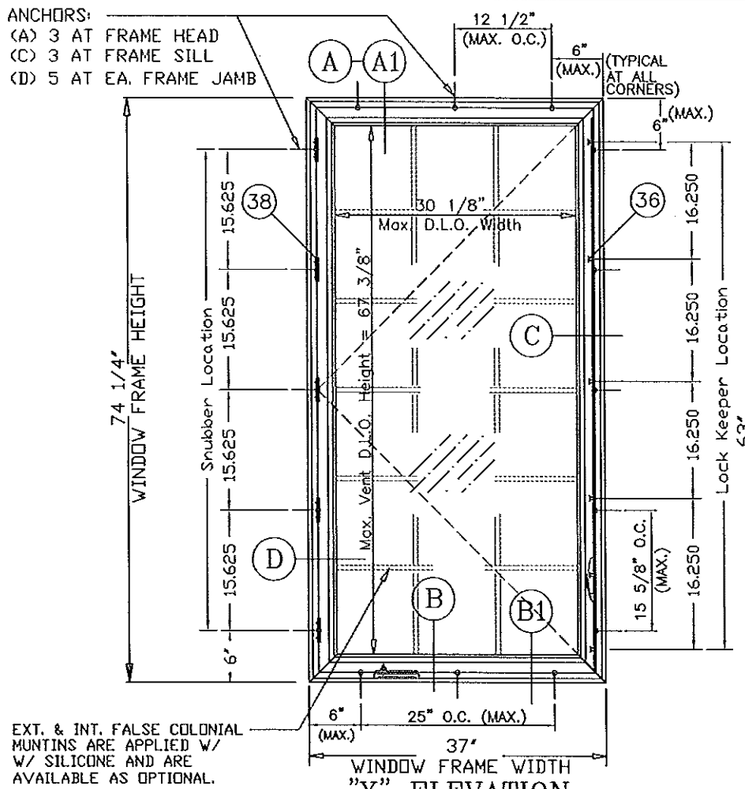
F. STATEMENTS

1. Statement letter of conformance to and complying with **FBC 5th Edition (2014)**, issued by manufacturer, dated 09/02/14, signed and sealed by Thomas J. Sotos, P. E.
2. Department of State Certification of **LAWSON INDUSTRIES, INC.** as a for profit corporation, active and organized under the laws of the State of Florida, dated 04/11/14 and filed at the Secretary of State.
3. Statement letter of conformance, complying with **FBC–2010**, dated 01/25/12, signed and sealed by Thomas J. Sotos, P. E.
   (Submitted under previous NOA No. 12–0127.21)
4. Statement letter of no financial interest, dated 10/01/08, signed and sealed by Thomas J. Sotos, P. E.
   (Submitted under NOA No. 08–1020.08)
5. Laboratory compliance letter for Test Reports No.'s **HETI–08–2099A**, dated 07/10/08, **HETI–08–2102A**, dated 07/10/08, **HETI–08–2097A**, dated 07/10/08, **HETI–08–2103A**, dated 07/10/08, **HETI–08–2131A**, dated 07/10/08, **HETI–08–2099B**, dated 07/10/08, **HETI–08–2100**, dated 07/10/08, **HETI–08–2101**, dated 07/10/08, **HETI–08–2102A**, dated 07/10/08, **HETI–08–2102B**, dated 07/10/08, **HETI–08–2097B**, dated 07/10/08, **HETI–08–2103B**, dated 07/10/08, **HETI–08–2104**, dated 07/10/08, **HETI–08–2105**, dated 07/10/08, **HETI–08–2106**, dated 07/10/08, **HETI–08–2125**, dated 07/10/08 and **HETI–08–2131B**, dated 07/10/08, all issued by Hurricane Engineering & Testing, Inc., signed and sealed by Candido F. Font, P. E.
   (Submitted under previous NOA No. 08–1020.08)

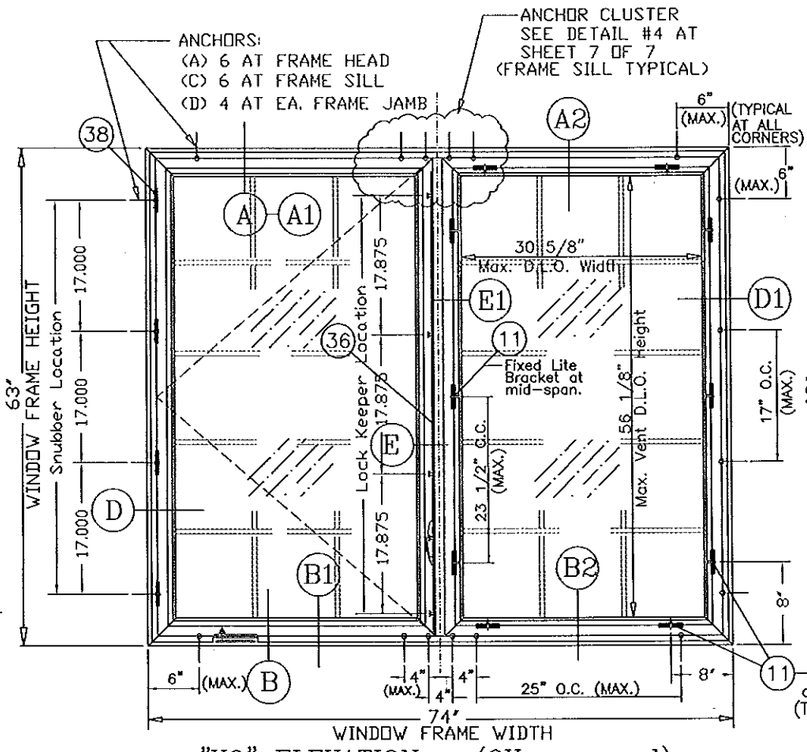
G. OTHERS

1. Notice of Acceptance No. **13–1217.22**, issued to Lawson Industries, Inc. for their Series "3200 Outswing Aluminum Casement Window – L.M.I.", approved on 03/06/14 and expiring on 03/04/19.

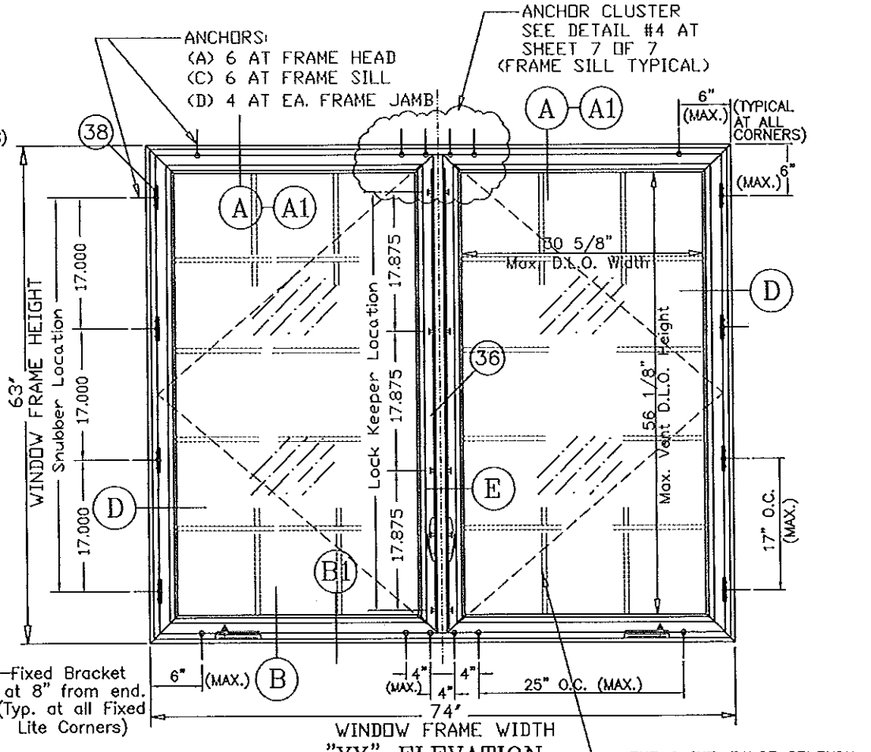
Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0908.20
Expiration Date: March 04, 2019
Approval Date: November 27, 2014



"X" ELEVATION
(LIMITED TO LOADS ON SHEET 5 OF 7)



"XO" ELEVATION – (OX reversed)
(LIMITED TO LOADS ON SHEET 6 OF 7)



"XX" ELEVATION
(LIMITED TO LOADS ON SHEET 6 OF 7)

SERIES-3200 OUTSWING CASEMENT IMPACT WINDOW APPROVED ELEVATIONS

General Notes:

1.) THIS WINDOW SYSTEM IS DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ) AND ASTM 1300-98. THIS PRODUCT IS IMPACT RESISTANT AND DOES NOT REQUIRE SHUTTERS.

2.) 1X or 2 X WOOD BUCKS SHALL BE INSTALLED AND ANCHORED SO THAT THE BUILDING RESISTS THE SUPERIMPOSED LOADS IN ACCORDANCE WITH REQUIREMENTS OF 2010 F.B.C. & TO BE REVIEWED BY BUILDING OFFICIAL.

3.) ANCHORS SHOWN ABOVE ARE AS PER TEST UNITS. ON CENTER (O.C.) ANCHOR SPACINGS WILL VARY WITH UNIT DIMENSIONS, AND THE NUMBER OF ANCHORS REQUIRED, AS SPECIFIED ON THE LOAD TABLES AT SHEETS 5 & 6.

4.) ANCHOR CONDITIONS NOT DESCRIBED IN THESE DRAWING'S ARE TO BE ENGINEERED ON A SITE SPECIFIC BASIS, UNDER SEPARATE APPROVAL AND TO BE REVIEWED BY BUILDING OFFICIAL.

5.) SEE SHEET #3 FOR BILL OF MATERIALS AND DETAILS.

6.) SEE SHEET #5 & 6 FOR GLAZING DETAILS & OPTIONS AND CHARTS FOR MAX. DESIGN PRESSURES.

7.) WOOD BUCKS IN CONTACT WITH CONCRETE MUST BE PRESSURE TREATED AND ANCHORED (BY OTHERS), PRIOR TO WINDOW INSTALLATION. (SEE SHEET #2 FOR DETAIL & NOTES)

8.) MATERIALS INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2014 FLORIDA BUILDING CODE SECTION 2003.8.4 AND/OR SECTION 2326.2

9.) EXT. & INT. FALSE COLONIAL MUNTINS ARE OPTIONAL & AND ARE APPLIED W/ SILICONE

10.) FRAME SILL ANCHOR CLIPS TO BE MEASURED FROM THE INSIDE EDGE OF THE WINDOW FRAME AND TO BE LOCATED WITHIN A +/- 1/2" TOLERANCE. TOTAL OF ANCHORS REQUIRED AT SILL TO BE THE SAME AS FRAME HEAD.

11.) SEE SHEET # 4 OF 10 FOR FLANGE PERIMETER CAULK/ INSTALLATION DETAIL.

12.) EXT. & INT. FALSE COLONIAL MUNTINS ARE OPTIONAL & AND ARE APPLIED W/ SILICONE

* WHEN THE GAP BETWEEN THE WINDOW FRAME AND THE BUCK OR MASONRY IS LESS THAN 1/8", SHIMS ARE NOT REQUIRED.

ANCHORS NOTE:

ANCHORS TO BE #12 SMS OR WD. SCREWS INTO WOOD, OR 1/4" TAPCONS or APPROVED CONC. FASTENERS INTO CONC., WITH A MINIMUM OF 1 1/4" PENETRATION INTO WOOD OR CONC. (REFER TO LOAD TABLES FOR QUANTITIES REQUIRED)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14-0908.20
Expiration Date 03/04/2019
By
Miami Dade Product Control

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225
STATE OF FLORIDA
SEP 2 2014
DATE

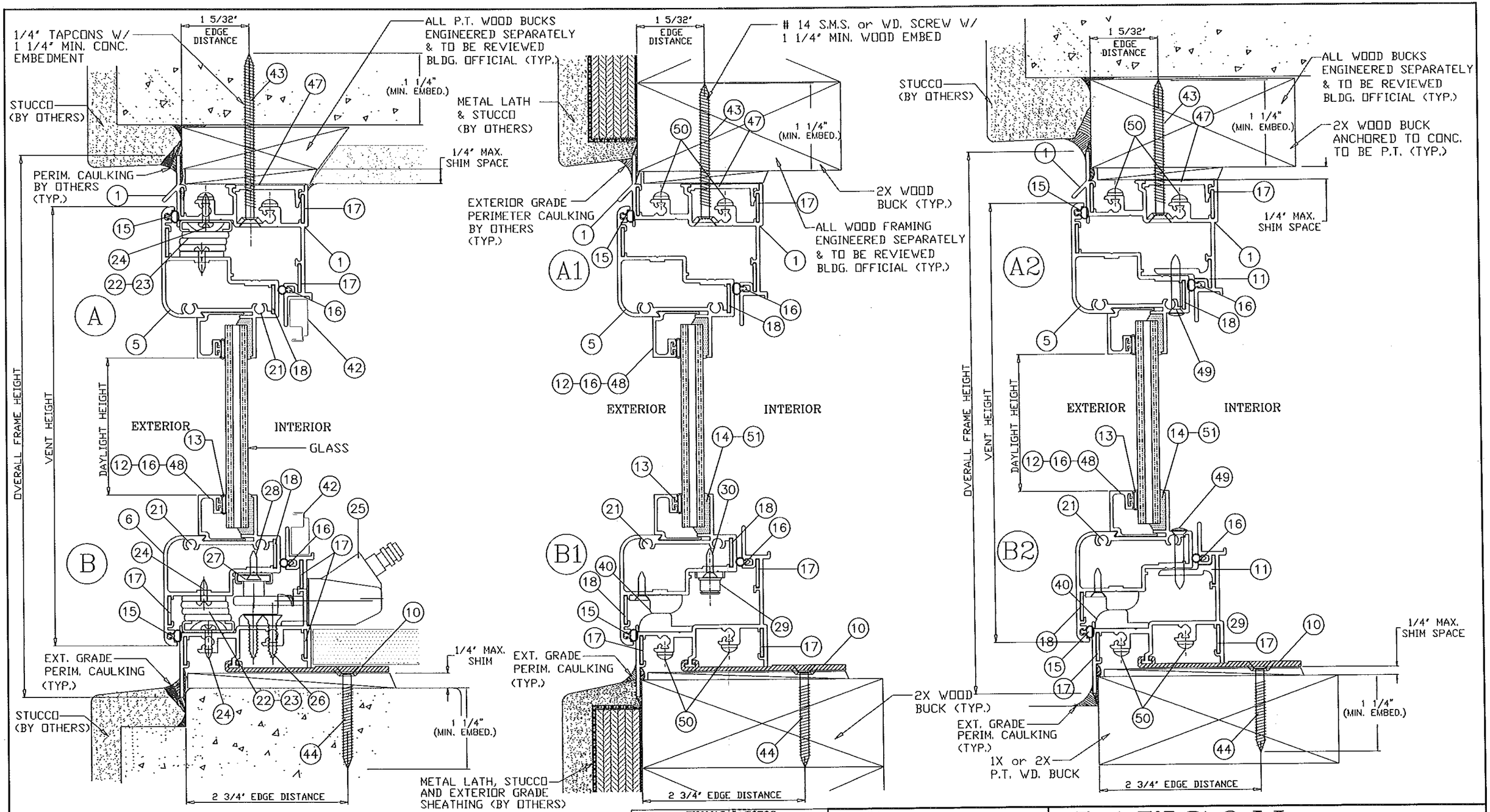
Revision Notes:			
A. Revised to Comply w/ 2010 FBC			
B. Renewal and Revision to sheet 5 & 6 of 7			
C. Revised to Comply w/ 2014 FBC			
Drawn By: N. ERAZO	Date Drawn: 07/27/08		
Revised By: N. ERAZO	Date Revised: 08/25/14		
Revision Level: C	Scale:		

LAWSON INDUSTRIES, INC.
8501 N.W. 90 ST.
MEDLEY, FLORIDA 33166
PH No. (305) 696-8660
MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

Draw Class:	Part Class:	Prod Category:	Series/Model:	Item Reference #:	Revision #:
NOA	ASSEMBLY	WINDOW	3200	LCNOA 08-01	

Series: 3200 Outswing Impact Casement Window
GENERAL NOTES & APPROVED ELEVATIONS (X, XX, XO or OX)

Product Reference Number:	Drawing Number:	Sheet:
CASEMENT3200-08NOA-01	L3200-0801	1 OF 7



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DATE

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Drawn By:	Date Drawn:
N. ERAZO	07/27/08
Revised By:	**Date Revised:**
N. ERAZO	08/25/14
Revision Level:	**Scale:**
C	

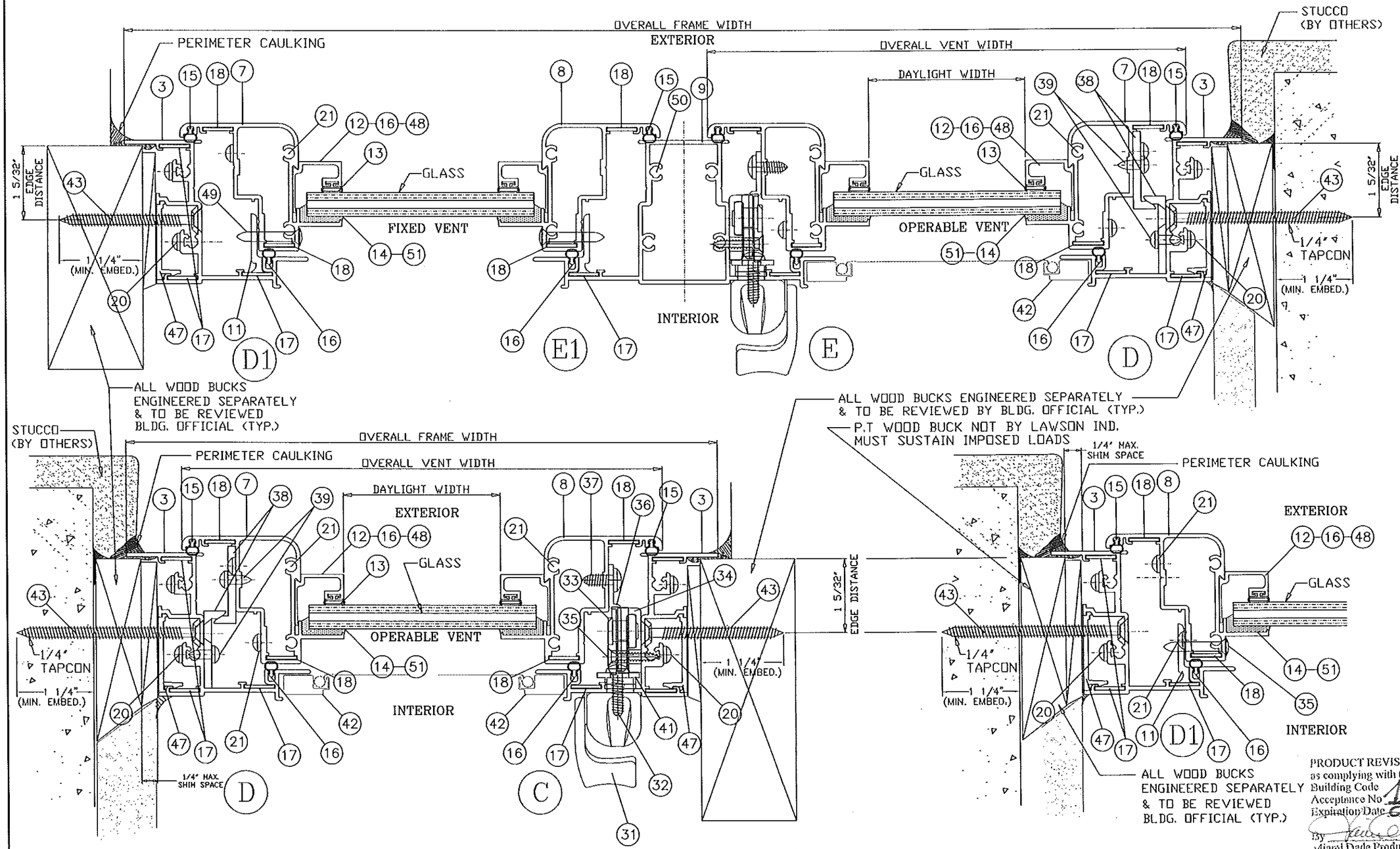
LAWSON INDUSTRIES, INC.
8501 N.W. 90 ST.
MEDLEY, FLORIDA 33166
PH No. (305) 696-8660
MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

Draw Class:	Part Class:	Prod Category:	Series/Model:	Item Reference #:	Revision #:
NOA	ASSEMBLY	WINDOW	3200	LCNOA 08-01	

Series: 3200 Outswing Impact Casement Window

VERTICAL CROSS-SECTIONS, DETAILS & NOTES

Product Reference Number:	Drawing Number:	Sheet:
CASEMENT3200-08NOA-01	L3200-0801	2 OF 7



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THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 65225

DATE_____

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Expiration Date 03/04/2019
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C. Revised to Comply w/ 2014 FBC

Drawn By: N. ERAZO	Date Drawn: 07/27/08		
Revised By: N. ERAZO	Date Revised: 08/26/14		
Revision Level: C	Scale:		

LAWSON INDUSTRIES, INC.
8501 N.W. 90 ST.
MEDLEY, FLORIDA 33166
PH No. (305) 696-8660
MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

Draw Class:	Part Class:	Prod Category:	Series/Model:	Item Reference #:	Revision #:
NOA	ASSEMBLY	WINDOW	3200	LCNOA 08-01	

Series: 3200 Outswing Impact Casement Window
HORIZONTAL CROSS-SECTIONS, DETAILS & NOTES

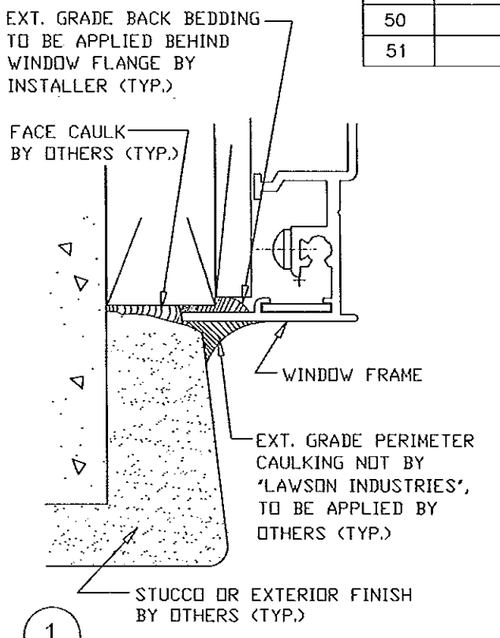
Product Reference Number:	Drawing Number:	Sheet:
CASEMENT3200-08NOA-01	L3200-0801	3 OF 7

LAWSON SERIES: 3200 CASEMENT WINDOW – BILL OF MATERIALS LIST

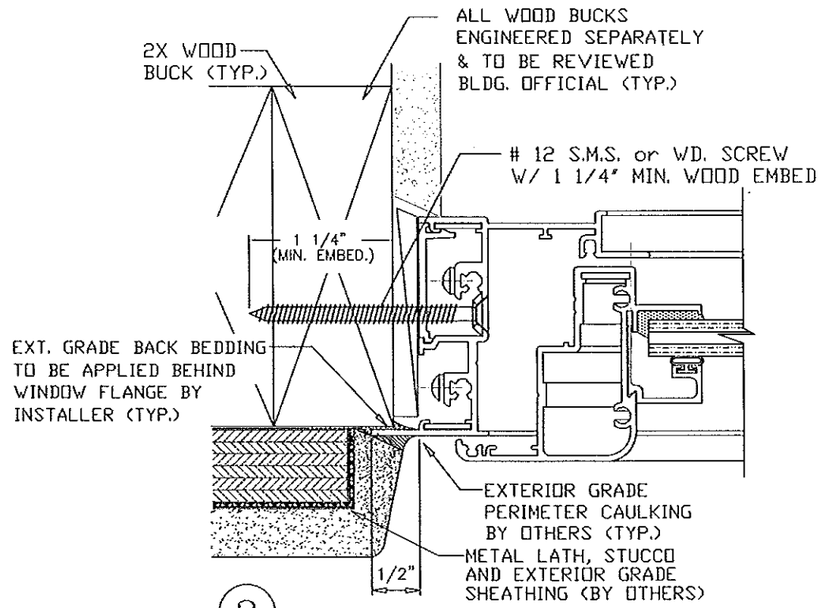
ITEM #	DWG. NO.	PART NO.	QUANTITY	DESCRIPTION	REMARKS
40			1 X VENT	ANTI SAG VENT/SILL RAMP	NYLON 6/6
41			1 X HANDLE	LOCKING HANDLE BACK PLATE	*
42			1 X VENT	5/16" INSECT SCREEN – OPTIONAL	ALUMINUM FRAME
43			SEE ELEVATION	FRAME INSTALLATION SCREWS	#12 X 2 1/4" PH SMS
44			SEE ELEVATION	FRAME SILL CLIP SCREWS	#12 X 1 1/2" PH SMS
45		SM–5504	SEE ELEVATION	FRAME/VENT ASSEMBLY SEALANT	*
46			SEE ELEVATION	FRAME INSTALLATION CAULKING	EXTERIOR GRADE PERIMETER
47	L–3007	LII–164	1 X ANCHOR	FRAME HEAD/JAMB SHEAR PLATE	6063–T5 ALUMINUM (3" L.)
48	L–3009	LI1–159	AS REQD.	GLAZING BEAD – 7/16"	6063–T5 ALUMINUM
49			2 X BRACKET	FIXED VENT ATTACHMENT SCREW	#8 x 1 1/4" FH./PHIL. SDS
50			8 X POST	IN–POST ASSEMBLY SCREWS	#10 X 1 1/4" PH SMS
51		DC–899	AS REQD.	GLAZING SEALANT – SILICONE	*

LAWSON SERIES: 3200 CASEMENT WINDOW – BILL OF MATERIALS LIST

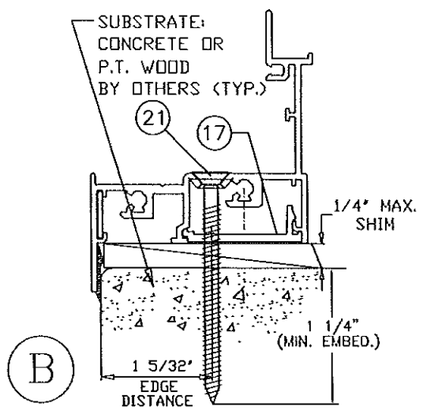
ITEM #	DWG. NO.	PART NO.	QUANTITY	DESCRIPTION	REMARKS
1	L–3001	LII–118	1	FRAME HEAD	6063–T6 ALUMINUM
2	L–3002	LII–115	1	FRAME SILL	6063–T6 ALUMINUM
3	L–3002	LII–115	2	FRAME JAMB–HINGE SIDE	6063–T6 ALUMINUM
4	L–3002	LII–115	2	FRAME JAMB–LATCH SIDE	6063–T6 ALUMINUM
5	L–3004	LII–119	2	VENT TOP RAIL	6063–T6 ALUMINUM
6	L–3004	LII–119	2	VENT BOTTOM RAIL	6063–T6 ALUMINUM
7	L–3004	LII–119	2	VENT SIDE RAIL–HINGE SIDE	6063–T6 ALUMINUM
8	L–3004	LII–119	2	VENT SIDE RAIL–LATCH SIDE	6063–T6 ALUMINUM
9	L–3003	LII–116	AS REQ'D.	IN–POST	6063–T6 ALUMINUM
10	L–3006	LII–111	1 X ANCHOR	FRAME SILL ANCHOR CLIP	6063–T6 ALUMINUM (3" L.)
11	L–3005	LII–113	AS REQ'D.	FIXED LITE MOUNTING BRACKET	6063–T6 ALUMINUM (3" L.)
12	L–3010	LI1–7708	AS REQD.	GLAZING BEAD – 5/16"	6063–T5 ALUMINUM
13	L–7531	L–7531	AS REQD.	GLAZING BEAD BULB VINYL	PVC VINYL
14		SM–5731	AS REQD.	GLAZING SEALANT – SILICONE	*
15	L–3012	LI–110	AS REQD.	WEATHERSTRIPPING – FRAME/VENT	PVC VINYL
16	L–3011	LII–133	AS REQ'D.	GLAZING BEAD 11/16" LAM./INSUL.	6063–T5 ALUMINUM
17	L–3013		12	CORNER KEY PER FRAME	*
18	L–3013		8	CORNER KEY PER VENT	*
19	L–3013		4 X POST	CORNER KEY PER IN–POST	*
20			8	FRAME ASSEMBLY SCREWS	#10 X 1" PH SMS
21			8	VENT ASSEMBLY SCREWS	#10 X 1 1/4" PH SMS
22			2 X VENT	4 BAR 90° HINGES – STD. & H.D.	*
23			2 X VENT	4 BAR 45° HINGES – STD. & H.D.	*
24			AS REQD.	HINGE MOUNTING SCREWS	#10 X 1/2" P.H./PHIL. B
25			1 X VENT	VENT OPERATOR – DUAL or SINGLE	*
26			4/ OPER.	OPERATOR MOUNTING SCREWS	#10 X 3/4" F.H./PHIL. SDS
27			1/ OPER.	STAINLESS STEEL "C" TRACK	*
28			2/ TRACK	TRACK MOUNTING SCREWS	#8 X 1/2" F.H./PHIL. SDS
29			1/ OPERATOR	STUD BRACKET CONNECTOR	*
30			2/ BRACKET	STUD BRACKET SCREWS	#8 X 1/2" F.H./PHIL. SDS
31			1/ VENT	LOCKING HANDLE	*
32			2/ LOCK	LOCK HANDLE MOUNTING SCREWS	#10–32 X 3/8" PH MS
33			1/ VENT	LOCKING MULTI–POINT BAR	*
34			1 X LOCK POINT	TIE BAR NYLON GUIDES	*
35			2 X GUIDE	NYLON GUIDES MOUNTING SCREWS	#8 X 1" PH./PHIL. B
36			1/ LOCK	KEEPER (ST. STEEL)	*
37			2/ KEEPER	KEEPER MOUNTING SCREWS	
38	L–3014		4	SNUBBER	6063–T5 ALUMINUM
39			2/ SNUBBER	SNUBBER INSTALLATION SCREWS	#8 X 1/2" PH SMS



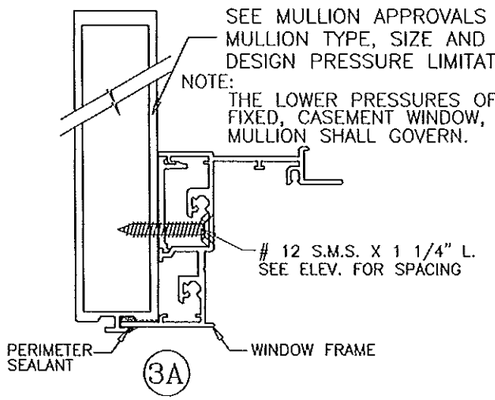
1 FRAME PERIMETER CAULK DETAIL



2 WOOD FRAME INSTALLATION DETAIL



ALTERNATE ANCHORING AT SILL



MULLION ATTACHMENT DETAIL

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0908.20
Expiration Date 03/04/2019
By
Miami-Dade Product Control

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225
DATE 7 2014

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Drawn By: N. ERAZO	Date Drawn: 07/27/08		
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8501 N.W. 90 ST.
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PH No. (305) 696–8660
MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

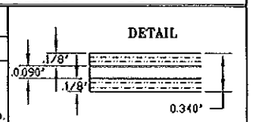
Draw Class:	Part Class:	Prod Category:	Series/Model:	Item Reference #:	Revision #:
NOA	ASSEMBLY	WINDOW	3200	LCNOA 08–01	

Series: 3200 Outswing Impact Casement Window
BILL OF MATERIALS LIST AND DETAILS

Product Reference Number:	Drawing Number:	Sheet:
CASEMENT3200–08NOA–01	L3200–0801	4 OF 7

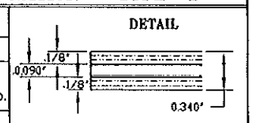
5/16" LAMINATED GLASS COMPOSITION - TYPE "A"

ITEM	DESCRIPTION	DETAIL
1	1/8" ANNEALED GLASS	
2	0.090" PVB INTERLAYER Butacite PVB by DUPONT or Saflex PVB by Eastman Chemical Co.	
3	1/8" ANNEALED GLASS	



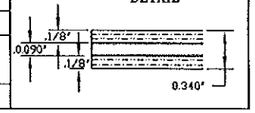
5/16" LAMINATED GLASS COMPOSITION - TYPE "B"

ITEM	DESCRIPTION	DETAIL
1	1/8" HEAT-STRENGHTENED GLASS	
2	0.090" PVB INTERLAYER Saflex PVB by Eastman Chemical Co.	
3	1/8" HEAT-STRENGHTENED GLASS	



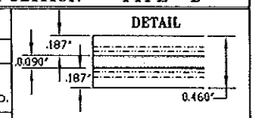
5/16" LAMINATED GLASS COMPOSITION - TYPE "C"

ITEM	DESCRIPTION	DETAIL
1	1/8" HEAT-STRENGHTENED GLASS	
2	0.090" INTERLAYER SentryGlass Interlayer by DuPont	
3	1/8" HEAT-STRENGHTENED GLASS	



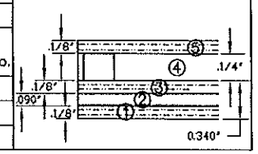
7/16" LAMINATED GLASS COMPOSITION - TYPE "D"

ITEM	DESCRIPTION	DETAIL
1	3/16" ANNEALED GLASS	
2	0.090" PVB INTERLAYER Saflex PVB by Eastman Chemical Co.	
3	3/16" ANNEALED GLASS	

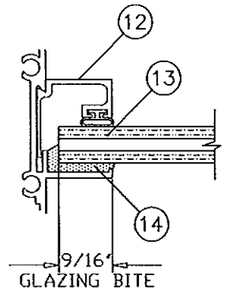


11/16" LAMINATED GLASS COMPOSITION TYPE "E"

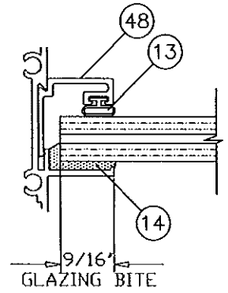
ITEM	DESCRIPTION	DETAIL
1	1/8" ANNEALED GLASS	
2	0.090" PVB INTERLAYER Saflex PVB by Eastman Chemical Co.	
3	1/8" ANNEALED GLASS	
4	1/4" INSULATED AIR SPACE	
5	1/8" ANNEALED GLASS	



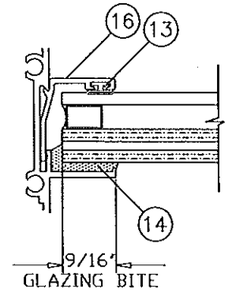
LAMINATED GLASS TYPES



5/16" Laminated



7/16" Laminated



11/16" Laminated/Insulated

GLAZING OPTION DETAILS

						Flange Frame Window Glazed with									
	3200 Impact Casement Window					Glass Type "A"		Glass Type "B"		Glass Type "C"		Glass Type "D"		Glass Type "E"	
	Configuration: "X"					5/16" Annealed Glass		5/16" H.S. Glass - PVB		5/16" H.S. Glass -SGP		7/16" Annealed Glass		11/16" Annealed Glass	
	Size Code	Width (in)	Height (in)	Anchors Head/Sill	Anchors Jamb	DP(+) psf	DP(-) psf	DP(+) psf	DP(-) psf	DP(+) psf	DP(-) psf	DP(+) psf	DP(-) psf	DP(+) psf	DP(-) psf
COMMODITY SIZES	12	19.125	26	2	2	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	13	19.125	38.375	2	3	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	14	19.125	50.625	2	4	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	15	19.125	63	2	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	16	19.125	74.25	2	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	H32	26.5	26	3	2	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	H33	26.5	38.375	3	3	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	H34	26.5	50.625	3	4	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	H35	26.5	63	3	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	H36	26.5	74.25	3	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	22	37	26	3	2	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	23	37	38.375	3	3	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	24	37	50.625	3	4	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	25	37	63	3	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	26	37	74.25	3	5	59.0	59.0	70.0	82.0	-	-	-	-	-	-
MODULAR SIZES	2020	24	24	2	2	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2030	24	36	2	3	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2040	24	48	2	4	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2050	24	60	2	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2060	24	72	2	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2620	30	24	3	2	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2630	30	36	3	3	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2640	30	48	3	4	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2650	30	60	3	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2660	30	72	3	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2820	32	24	3	2	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2830	32	36	3	3	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2840	32	48	3	4	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2850	32	60	3	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	2860	32	72	3	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	3020	36	24	3	2	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	3030	36	36	3	3	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	3040	36	48	3	4	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	3050	36	60	3	5	59.0	59.0	70.0	82.0	70.0	82.0	70.0	73.0	70.0	73.0
	3060	36	72	3	5	59.0	59.0	70.0	82.0	-	-	-	-	-	-

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0908.20
Expiration Date 03/04/2019
By
Miami Dade Product Control

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

DATE

Revision Notes:
A. Revised to Comply w/ 2010 FBC
B. Renewal and Revision to sheet 5 of 7
C. Revised to Comply w/ 2014 FBC

Drawn By:	N. ERAZO	Date Drawn:	07/27/08
Revised By:	N. ERAZO	Date Revised:	08/26/14
Revision Level:	C	Scale:	

LAWSON INDUSTRIES, INC.
8501 N.W. 90 ST.
MEDLEY, FLORIDA 33166
PH No. (305) 696-8660
MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

Draw Class:	Part Class:	Prod Category:	Series/Model:	Item Reference #:	Revision #:
NOA	ASSEMBLY	WINDOW	3200	LCNOA 08-01	

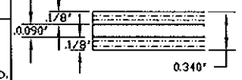
Series: 3200 Outswing Impact Casement Window
GLASS & DP CHARTS AND GLAZING DETAILS FOR "X" UNITS

Product Reference Number:	Drawing Number:	Sheet:
CASEMENT3200-08NOA-01	L3200-0801	5 OF 7

5/16" LAMINATED GLASS COMPOSITION – TYPE "A"

ITEM	DESCRIPTION
1	1/8" ANNEALED GLASS
2	0.090" PVB INTERLAYER Butacite PVB by DUPONT or Saflex PVB by Eastman Chemical Co.
3	1/8" ANNEALED GLASS

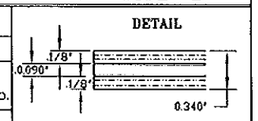
DETAIL



5/16" LAMINATED GLASS COMPOSITION – TYPE "B"

ITEM	DESCRIPTION
1	1/8" HEAT-STRENGHTENED GLASS
2	0.090" PVB INTERLAYER Saflex PVB by Eastman Chemical Co.
3	1/8" HEAT-STRENGHTENED GLASS

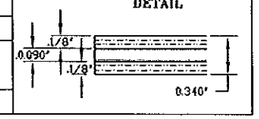
DETAIL



5/16" LAMINATED GLASS COMPOSITION – TYPE "C"

ITEM	DESCRIPTION
1	1/8" HEAT-STRENGHTENED GLASS
2	0.090" INTERLAYER SentryGlass Interlayer by DuPont
3	1/8" HEAT-STRENGHTENED GLASS

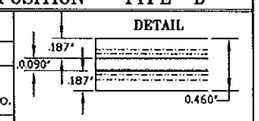
DETAIL



7/16" LAMINATED GLASS COMPOSITION – TYPE "D"

ITEM	DESCRIPTION
1	3/16" ANNEALED GLASS
2	0.090" PVB INTERLAYER Saflex PVB by Eastman Chemical Co.
3	3/16" ANNEALED GLASS

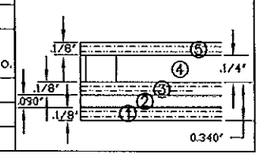
DETAIL



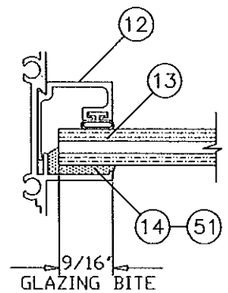
11/16" LAMINATED GLASS COMPOSITION TYPE "E"

ITEM	DESCRIPTION
1	1/8" ANNEALED GLASS
2	0.090" PVB INTERLAYER Saflex PVB by Eastman Chemical Co.
3	1/8" ANNEALED GLASS
4	1/4" INSULATED AIR SPACE
5	1/8" ANNEALED GLASS

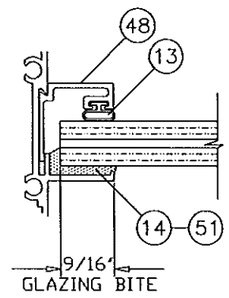
DETAIL



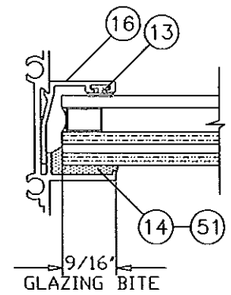
LAMINATED GLASS TYPES



5/16" Laminated



7/16" Laminated



11/16" Laminated/Insulated

GLAZING OPTION DETAILS

	3200 Impact Casement Window Configuration: "XX", "XO" or "OX"					Flange Frame Window Glazed with									
						Glass Type "A"		Glass Type "B"		Glass Type "C"		Glass Type "D"		Glass Type "E"	
						5/16" Annealed Glass		5/16" H.S. Glass - PVB		5/16" H.S. Glass -SGP		7/16" Annealed Glass		11/16" Annealed Glass	
	Size Code	Width (in)	Height (in)	Anchors Head/Sill	Anchors Jamb	DP(+) psf	DP(-) psf	DP(+) psf	DP(-) psf	DP(+) psf	DP(-) psf	DP(+) psf	DP(-) psf	DP(+) psf	DP(-) psf
COMMODITY SIZES	22	37	26	4	2	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	23	37	38.375	4	3	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	24	37	50.625	4	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	25	37	63	4	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	32	53.125	26	4	2	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	33	53.125	38.375	4	3	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	34	53.125	50.625	4	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	35	53.125	63	4	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	D22	74	26	6	2	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	D23	74	38.375	6	3	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	D24	74	50.625	6	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	D25	74	63	6	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
MODULAR SIZES	3020	36	24	4	2	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	3030	36	36	4	3	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	3040	36	48	4	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	3050	36	60	4	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	4020	48	24	4	2	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	4030	48	36	4	3	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	4040	48	48	4	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	4050	48	60	4	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	5020	60	24	5	2	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	5030	60	36	5	3	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	5040	60	48	5	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	5050	60	60	5	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	6020	72	24	6	2	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	6030	72	36	6	3	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	6040	72	48	6	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0
	6050	72	60	6	4	70.0	70.0	70.0	73.0	70.0	82.0	70.0	73.0	70.0	73.0

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0908.20
Expiration Date ~~03/04~~ /2019
By
Miami Dade Product Control

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

DATE

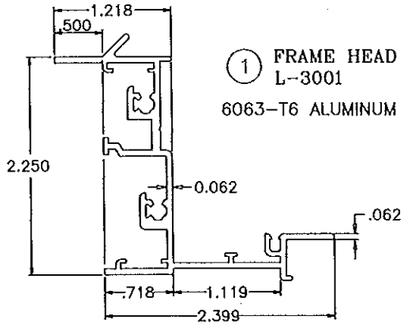
Revision Notes:	A. Revised to Comply w/ 2010 FBC B. Renewal and Revision to sheet 5 & 6 of 7 C. Revised to Comply w/ 2014 FBC
Drawn By: N. ERAZO	Date Drawn: 07/27/08
Revised By: N. ERAZO	Date Revised: 08/25/14
Revision Level: C	Scale:

LAWSON INDUSTRIES, INC.
8501 N.W. 90 ST.
MEDLEY, FLORIDA 33166
PH No. (305) 696-8660
MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

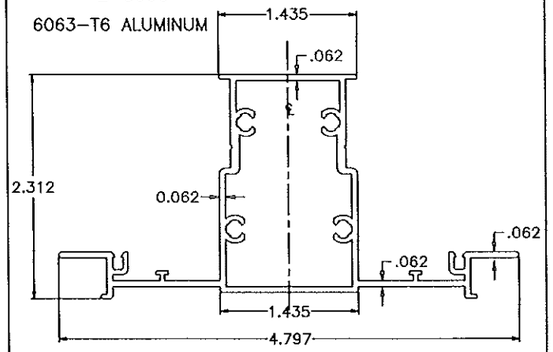
Draw Class:	Part Class:	Prod Category:	Series/Model:	Item Reference #:	Revision #:
NOA	ASSEMBLY	WINDOW	3200	LCNOA 08-01	

Series: 3200 Outswing Impact Casement Window
GLASS & DP CHARTS AND GLAZING DETAILS FOR "XX-OX-XO" UNITS

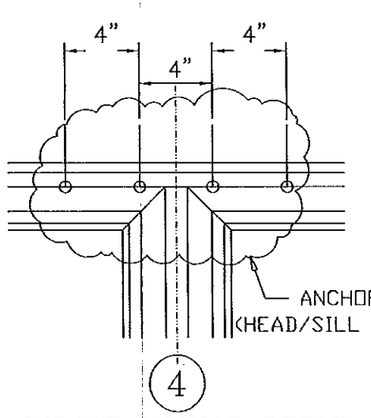
Product Reference Number:	Drawing Number:	Sheet:
CASEMENT3200-08NOA-01	L3200-0801	6 OF 7



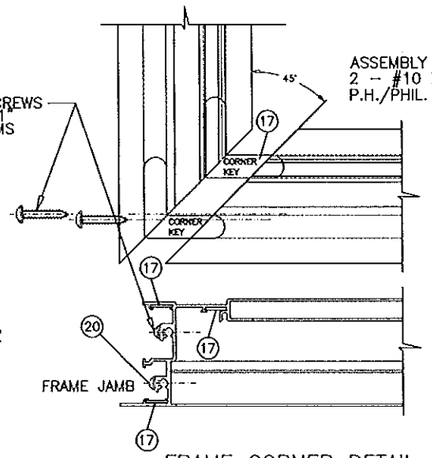
(1) FRAME HEAD
L-3001
6063-T6 ALUMINUM



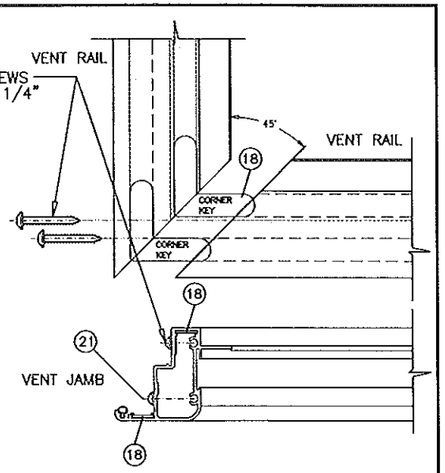
(9) FRAME IN-POST RAIL
L-3003
6063-T6 ALUMINUM



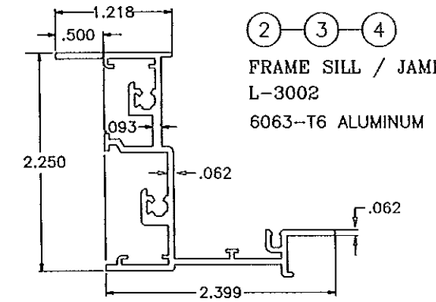
INPOST ANCHOR DETAIL



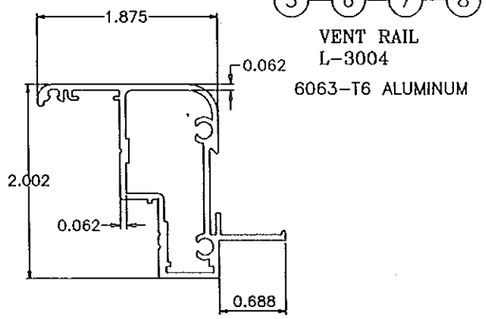
FRAME CORNER DETAIL



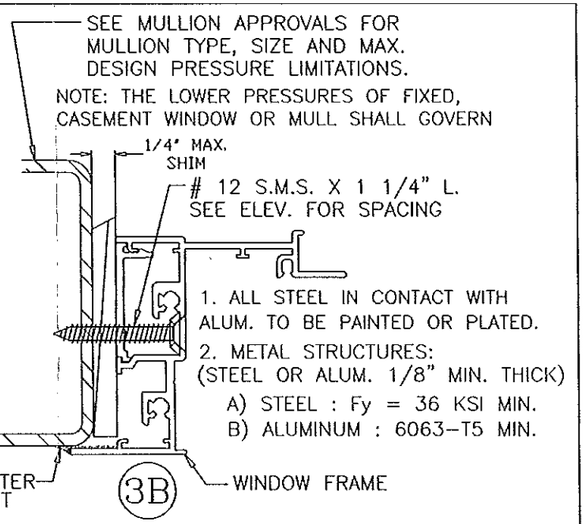
VENT RAIL CORNER DETAIL



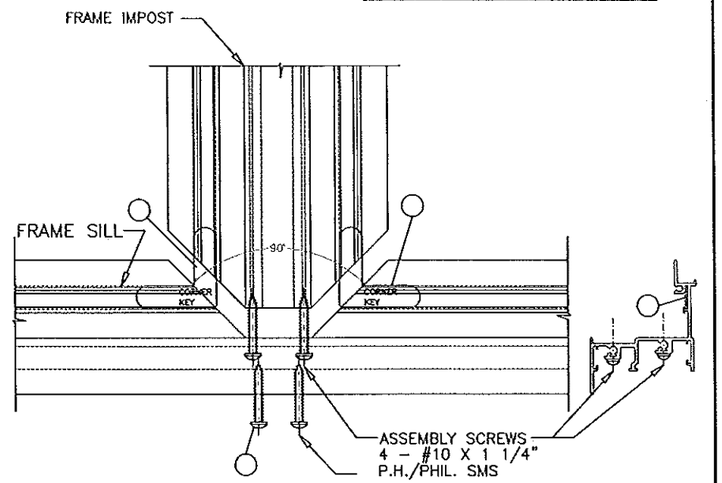
(2)-(3)-(4)
FRAME SILL / JAMB
L-3002
6063-T6 ALUMINUM



(5)-(6)-(7)-(8)
VENT RAIL
L-3004
6063-T6 ALUMINUM

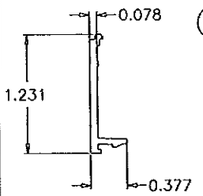


METAL STRUCTURE ATTACHMENT DETAIL

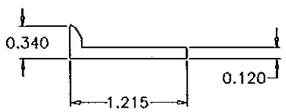


FRAME IMPOST DETAIL

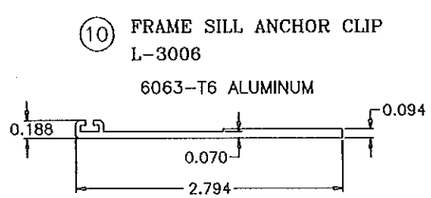
FRAME & SASH CORNER ASSEMBLY DETAILS



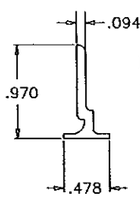
(47) FRAME SHEAR PLATE
L-3007
6063-T5 ALUMINUM



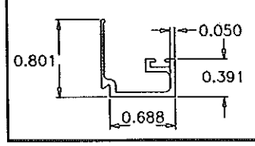
(38) ALUMINUM SNUBBER
L-3014
6063-T5 ALUMINUM



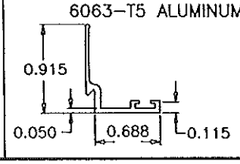
(10) FRAME SILL ANCHOR CLIP
L-3006
6063-T6 ALUMINUM



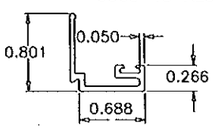
(11) FIXED LITE MOUNTING BRACKET
L-3005
6063-T6 ALUMINUM



(12) GLAZING BEAD
5/16" Laminated
L-3010 or L-7708
6063-T5 ALUMINUM



(16) GLAZING BEAD
11/16" Insulated/Laminated
L-3011 or LII-133
6063-T5 ALUMINUM



(48) GLAZING BEAD
7/16" Laminated
L-3009 or LII-159
6063-T5 ALUMINUM

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0908.20
Expiration Date 03/04/2019
By
Miami Dade Product Control

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225
DATE SEP 2 2014

Revision Notes:	
A. Revised to Comply w/ 2010 FBC	
B. Renewal and Revision to sheet 5 & 6 of 7	
C. Revised to Comply w/ 2014 FBC	
Drawn By: N. ERAZO	Date Drawn: 07/27/08
Revised By: N. ERAZO	Date Revised: 08/25/14
Revision Level: C	Scale:

LAWSON INDUSTRIES, INC.
8501 N.W. 90 ST.
MEDLEY, FLORIDA 33166
PH No. (305) 696-8660
MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

Draw Class:	Part Class:	Prod Category:	Series/Model:	Item Reference #:	Revision #:
NOA	ASSEMBLY	WINDOW	3200	LCNOA 08-01	

Series: 3200 Outswing Impact Casement Window
EXTRUSION CROSS-SECTIONS, & ASSEMBLY DETAILS

Product Reference Number:	Drawing Number:	Sheet:
CASEMENT3200-08NOA-01	L3200-0801	7 OF 7